

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: KAWAMAE, et al  
Serial No.: Not yet assigned  
Filed: November 7, 2001  
For: DATA TRANSMISSION METHOD FOR EMBEDDED DATA,  
DATA TRANSMITTING AND REPRODUCING APPARATUSES  
AND INFORMATION RECORDING MEDIUM THEREFOR  
Group: 2661  
Examiner: S. Cangialosi

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

November 7, 2001

Sir:

The following amendments and remarks are respectfully  
submitted prior to the Rule 53(b) Continuation Application  
filed on even date.

IN THE SPECIFICATION

Please insert before the first line of the specification  
the following:

-- This is a continuation of application Serial No.  
09/144,696, filed September 1, 1998. --  
-- CROSS-REFERENCE TO RELATED APPLICATIONS

The present application is related to application Serial  
No. 09/144,467, filed September 1, 1998 entitled AWATERMARK  
EMBEDDING METHOD AND SYSTEM® by I. Echizen et al; application  
Serial No. 09/144,989, filed September 1, 1998 entitled  
AMETHOD AND SYSTEM FOR EMBEDDING INFORMATION INTO CONTENTS® by  
H. Yoshiura et al; and application Serial No. 09/148,325,

filed September 4, 1998 entitled ARECORDING/REPRODUCING METHOD  
AND APPARATUS PROCESSING APPARATUS AND RECORDING MEDIUM FOR  
VIDEO SIGNAL HAVING COPY CONTROL INFORMATION® by H. Kimura et  
al. --

IN THE CLAIMS

Please cancel claims 1-20 without prejudice or disclaimer  
of the subject matter thereof.

Please add new claims 21-31 as follows:

-- 21. A data transmission method for transmitting  
information data containing additional information data  
therewith, said data transmission method comprising the steps  
performed at a transmitter side of:

preparing a data frame of said information data  
into which the additional information data is to be embedded;

embedding said additional information data plural  
times into said data frame, repetitively; and

transmitting the information data embedded with the  
repetitive additional information data.

22. A data transmission method as claimed in Claim 21,  
further comprising the steps performed at a receiver side of:

receiving the transmitted information data embedded  
with the repetitive additional information data therein;

detecting the repetitive additional  
information data embedded from said transmitted information  
data; and

determining said additional information data based on repetitiveness of the additional information data detected.

23. A data transmission method as claimed in Claim 22, wherein said determining step includes a step of:

determining said additional information data based on a majority rule of the repetitive additional information data embedded into said data frame.

24. A data transmission method as claimed in Claim 21, wherein said information data includes at least one of video data, audio data and text data.

25. A data transmission method as claimed in Claim 22, wherein said information data includes at least one of video data, audio data and text data.

26. A data transmission apparatus for transmitting information data containing additional information data therewith, comprising:

first means for preparing a data frame of said information data into which the additional information data is to be embedded;

second means for preparing said additional information data in accordance with a predetermined conversion table;

third means for embedding said additional

information data in the first means by plural times into the data frame, repetitively; and

fourth means for transmitting the information data embedded with the repetitive additional data therein.

27. A data transmission apparatus as claimed in Claim 26, wherein said fourth means comprises:

means for recording the information data embedded with the repetitive additional information data onto an optical information recording medium.

28. A data reproducing apparatus for reproducing the transmitted information data transmitted by the data transmitting apparatus as claimed in Claim 25,

said data reproducing apparatus comprising:

first means for receiving the transmitted information data embedded with the repetitive additional information;

second means for detecting the repetitive additional information data which are embedded with the information data received; and

third means for determining said embedded additional information data on a basis of repetitiveness of the additional information data detected.

29. A data reproducing apparatus as claimed in the claim 28, wherein said first means comprises:

means for reproducing the information data embedded with the repetitive additional information data from an optical information recording medium.

30. An information recording medium for recording data therein, comprising:

information data being reproducible in the form of a data frame; and

additional data embedded by plural times into said information data of said data frame, repetitively.

31. An information recording medium as claimed in claim 30, wherein information relating to a repetition number of the embedded additional data is recorded into a part of said information recording medium. --

#### REMARKS


Entry of the above amendments prior to examination is respectfully requested.

Please charge any shortage in fees due in connection with the filing of this paper, or credit any overpayment of fees,

to the deposit account of Antonelli, Terry, Stout & Kraus,  
LLP, Deposit Account No. 01-2135 (520.36525CX2).

Respectfully submitted,

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